



UNITED STATES DEPARTMENT OF COMMERCE

COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.	
09/204,706	12/03/98	RAMACHANDRAN		R	98-P-	7501-US
THE LAW OFFICE OF JEROME J NORRIS 1901 PENNSYLVANIA AVENUE SUITE 305				EXAMINER OLSEN, A		
1901 PENNSYLVANIA AVENUE SUITE 305 WASHINGTON DC 20006				ART UNI	т	PAPER NUMBER
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				DATE MAILE	D: 04/1	1/01 /

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks





Office Action Summary

Application No. 09/204,706 Applicant(s)

Examiner

Group Art Unit Allan Olsen

1746

Ramachandran



X Responsive to communication(s) filed on Feb 7, 2001	<u> </u>			
☐ This action is FINAL .				
☐ Since this application is in condition for allowance except for for in accordance with the practice under <i>Ex parte Quayle</i> , 1935 (
A shortened statutory period for response to this action is set to e is longer, from the mailing date of this communication. Failure to application to become abandoned. (35 U.S.C. § 133). Extension 37 CFR 1.136(a).	respond within the period for response will cause the			
Disposition of Claims				
	is/are pending in the application.			
Of the above, claim(s)	is/are withdrawn from consideration.			
Claim(s)	is/are allowed.			
	is/are rejected.			
☐ Claim(s)	is/are objected to.			
☐ Claims				
Application Papers				
☐ See the attached Notice of Draftsperson's Patent Drawing				
☐ The drawing(s) filed on is/are objected	d to by the Examiner.			
☐ The proposed drawing correction, filed on	isapproveddisapproved.			
\square The specification is objected to by the Examiner.				
\square The oath or declaration is objected to by the Examiner.				
Priority under 35 U.S.C. § 119				
Acknowledgement is made of a claim for foreign priority un				
☐ All ☐ Some* ☐ None of the CERTIFIED copies of	the priority documents have been			
received.				
received in Application No. (Series Code/Serial Number				
received in this national stage application from the Ir				
*Certified copies not received: Acknowledgement is made of a claim for domestic priority				
Acknowledgement is made of a claim for domestic priority	under 55 5.5.5. 3 115(6).			
Attachment(s)				
☒ Notice of References Cited, PTO-892☐ Information Disclosure Statement(s), PTO-1449, Paper No.	(e)			
☐ Interview Summary, PTO-413	8			
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	3			
☐ Notice of Informal Patent Application, PTO-152				
SFF OFFICE ACTION ON TH	HE FOLLOWING PAGES			

Office Action Summary



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DETAILED ACTION

Continued Prosecution Application

1. The request filed on for a Divisional Application based on parent Application No. 09204,706 is acceptable and a divisional application has been established. An action on the divisional application follows.

Specification

2. The abstract of the disclosure is objected to because the abstract should be in narrative form and generally limited to a single paragraph. The form and legal phraseology often used in patent claims should be avoided Correction is required. See MPEP § 608.01(b).

Claim Objections

3. Claim 13 is objected to because in line 9 the phrase "on which" should be --in which--. Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claims 13-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for 5.

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

Claims 13-17 are said to be apparatus claims, however the claims read as though they are

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method claims, therefore it is not clear what class of subject matter Applicant intends to claim. It

is noted that Applicant has already received a patent on the method and given that Applicant

indicated that the instant claims are directed to the nonelected invention of original apparatus

claims 11-12. Therefore, the claims are being treated as apparatus claims and as such, limitations

directed to method steps were given no patentable weight except for indicating that which the

claimed apparatus must be capable of performing.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the 6.

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or

on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 7.

5,545,289 issued to Chen et al. (hereinafter, Chen).

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Chen teaches a RIE metal etching apparatus. The etching chamber of Chen meets the limitation of supplying a mixture of an etching gas and an acid neutralizing gas into a vacuum chamber [in] which the structure is supported because, in terms of apparatus limitations, this limitation is considered to require an apparatus having a vacuum chamber with a gas supply line and a substrate support. Chen teaches a separate plasma which would be capable of forming a water-only plasma. The temperature of the substrate with in the separate chamber is capable of being heated to a temperature above 200° C. The temperature may also be controlled and held between 175°C - 200°C. The separate chamber of Chen also meets the limitation of claim 16 as this a vacuum chamber with gas supply means. The separate chamber includes substrate heaters and a remote microwave plasma source. Therefore, the apparatus is capable of performing a down-stream, chemical etching process upon a substrate that is heated above 200°C. See column 5, lines 40-67; column 8, lines 36-48 and 5-59; column 12, lines 1-10.

8. Claims 13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 4,816,098 issued to Davis et al. (hereinafter, Davis).

Davis teaches a multi-chamber apparatus. The vacuum chambers of Davis include: gas supply lines; remote plasma generation means; substrate heating means; and substrate temperature controlling means. Because of the presence of these features, the apparatus of Davis is capable of performing the method limitations set forth in claims 13-17. See column 60, lines 34-54; column 44, lines 33-47.

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Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allan Olsen whose telephone number is (703) 306-9075. The examiner can normally be reached on Monday through Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski, can be reached on (703) 308-4333. The fax phone number for this Group is (703) 305-7719.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

Allan Olsen, Ph.D.

April 3, 2001

RANDY GULAKOWSKI SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1700